

Icing for General Aviation Pilots

Le grivrage pour les pilotes de l'aviation générale

NASA and Transport Canada

TECHNOLOGY

NASA, the FAA and AOPA Air Safety Foundation developed *Icing for General Aviation Pilots*. The goal was to improve safety by presenting practical information to help pilots avoid, or detect and exit icing conditions during each phase of flight. The effects of icing on performance and handling, including recovery from control upsets, were also discussed. To appeal to the target audience, realistic flight scenarios were used to illustrate key safety points and teach good decision-making skills.

COMMERCIAL APPLICATION

◆ Transport Canada Civil Aviation (TCCA) viewed the DVD-video training aid and partnered with NASA to develop a French-language version required for distribution in Canada. TCCA's goal is to distribute the dual-language product to Canadian GA pilots, free of charge.

SOCIAL / ECONOMIC BENEFIT

◆ Improves understanding of airframe icing and provides operational knowledge which will result in better decision-making

◆ Developed to address the significant number of accidents and incidents due to in-flight structural icing. A study commissioned by the FAA determined an average of 20 accidents per year occurred from in-flight structural icing, accounting for 27 fatalities and \$82 M in damages between 1991 and 1996.



**Dual-Language DVD-video
Icing Training Aid**

NASA APPLICATIONS

◆ *Icing for General Aviation Pilots* was developed in support of the Aviation Safety Program, Aircraft Icing Project. NASA has distributed almost 9000 copies of this DVD-video to training organizations and individual pilots. It can be ordered via the internet. TC is distributing 1000 dual-language DVD-videos to Canadian GA pilots.

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